

CONSERVATION MEASURE 41-01 (2002)^{1,2}
General Measures for Exploratory Fisheries for
***Dissostichus* spp. in the Convention Area in the 2002/03 Season**

| | |
|---------|-----------|
| Species | toothfish |
| Area | various |
| Season | 2002/03 |
| Gear | longline |

The Commission,

Noting the need for the distribution of fishing effort and catch in fine-scale rectangles³ in these exploratory fisheries,

hereby adopts the following conservation measure:

1. This conservation measure applies to exploratory fisheries using the trawl or longline methods except for such fisheries where the Commission has given specific exemptions to the extent of those exemptions. In trawl fisheries, a haul comprises a single deployment of the trawl net. In longline fisheries, a haul comprises the setting of one or more lines in a single location.
2. Fishing should take place over as large a geographical and bathymetric range as possible to obtain the information necessary to determine fishery potential and to avoid over-concentration of catch and effort. To this end, fishing in any fine-scale rectangle shall cease when the reported catch reaches 100 tonnes and that rectangle shall be closed to fishing for the remainder of the season. Fishing in any fine-scale rectangle shall be restricted to one vessel at any one time.
3. Each haul of a longline, including those designated as research hauls in accordance with Annex 41-01/B paragraph 4, shall have, except in exceptional circumstances beyond the control of the vessel (such as ice and weather conditions), a soak time not exceeding 48 hours, measured from the completion of the setting process to the beginning of the hauling process.
4. In order to give effect to paragraph 2 above:
 - (i) the precise geographic position of a haul in trawl fisheries will be determined by the mid-point of the path between the start-point and end-point of the haul;
 - (ii) the precise geographic position of a haul in longline fisheries will be determined by the centre-point of the line or lines deployed;
 - (iii) the fine-scale rectangle in which a vessel is deemed to be fishing will be that in which the precise geographic position of a haul lies;
 - (iv) the vessel will be deemed to be fishing in any fine-scale rectangle from the beginning of the setting process until the completion of the hauling of all lines in that fine-scale rectangle;
 - (v) catch and effort information for each species by fine-scale rectangle shall be reported to the Executive Secretary every five days using the Five-Day Catch and Effort Reporting System set out in Conservation Measure 23-01; and

- (vi) the Secretariat shall notify Contracting Parties participating in these fisheries when the total catch for *Dissostichus eleginoides* and *Dissostichus mawsoni* combined in any fine-scale rectangle is likely to reach 100 tonnes, and fishing in that fine-scale rectangle shall be closed when that limit is reached.
5. The by-catch in each exploratory fishery shall be regulated as in Conservation Measure 33-03.
 6. The total number and weight of *Dissostichus eleginoides* and *Dissostichus mawsoni* discarded, including those with the 'jellymeat' condition, shall be reported.
 7. Each vessel participating in the exploratory fisheries for *Dissostichus* spp. during the 2002/03 season shall have one scientific observer appointed in accordance with the CCAMLR Scheme of International Scientific Observation, and where possible one additional scientific observer, on board throughout all fishing activities within the fishing season.
 8. The Data Collection Plan (Annex 41-01/A) and Research Plan (Annex 41-01/B) shall be implemented. Data collected pursuant to the Data Collection and Research Plans for the period up to 31 August 2003 shall be reported to CCAMLR by 30 September 2003 so that the data will be available to the meeting of the Working Group on Fish Stock Assessment (WG-FSA) in 2003. Such data taken after 31 August shall be reported to CCAMLR not later than three months after the closure of the fishery, but, where possible, submitted in time for the consideration of WG-FSA.
 9. Members who choose not to participate in the fishery prior to the commencement of the fishery shall inform the Secretariat of changes in their plans no later than one month before the start of the fishery. If, for whatever reason, Members are unable to participate in the fishery, they shall inform the Secretariat no later than one week after finding that they cannot participate. The Secretariat will inform all Contracting Parties immediately after such notification is received.

¹ Except for waters adjacent to the Kerguelen and Crozet Islands

² Except for waters adjacent to the Prince Edward Islands

³ A fine-scale rectangle is defined as an area of 0.5° latitude by 1° longitude with respect to the northwest corner of the statistical subarea or division. The identification of each rectangle is by the latitude of its northernmost boundary and the longitude of the boundary closest to 0°.

DATA COLLECTION PLAN FOR EXPLORATORY FISHERIES

1. All vessels will comply with the Five-day Catch and Effort Reporting System (Conservation Measure 23-01) and Monthly Fine-scale Catch, Effort and Biological Data Reporting Systems (Conservation Measures 23-04 and 23-05).
2. All data required by the CCAMLR *Scientific Observers Manual* for finfish fisheries will be collected. These include:
 - (i) position, date and depth at the start and end of every haul;
 - (ii) haul-by-haul catch and catch per effort by species;
 - (iii) haul-by-haul length frequency of common species;
 - (iv) sex and gonad state of common species;
 - (v) diet and stomach fullness;
 - (vi) scales and/or otoliths for age determination;
 - (vii) number and mass by species of by-catch of fish and other organisms; and
 - (viii) observation on occurrence and incidental mortality of seabirds and mammals in relation to fishing operations.
3. Data specific to longline fisheries will be collected. These include:
 - (i) position and sea depth at each end of every line in a haul;
 - (ii) setting, soak, and hauling times;
 - (iii) number and species of fish lost at surface;
 - (iv) number of hooks set;
 - (v) bait type;
 - (vi) baiting success (%);
 - (vii) hook type; and
 - (viii) sea and cloud conditions and phase of the moon at the time of setting the lines.

RESEARCH PLAN FOR EXPLORATORY FISHERIES

1. Activities under this research plan shall not be exempted from any conservation measure in force.
2. This plan applies to all small-scale research units (SSRUs) as defined in Table 1 and Figure 1.
3. Any vessel undertaking prospecting or commercial fishing in any SSRU must undertake the following research activities:
 - (i) On first entry into a SSRU, the first 10 hauls, designated 'first series', whether by trawl or longline, should be designated 'research hauls' and must satisfy the criteria set out in paragraph 4.
 - (ii) The next 10 hauls, or 10 tonnes of catch for longlining, whichever trigger level is achieved first, or 10 tonnes of catch for trawling, are designated the 'second series'. Hauls in the second series can, at the discretion of the master, be fished as part of normal exploratory fishing. However, provided they satisfy the requirements of paragraph 4, these hauls can also be designated as research hauls.
 - (iii) On completion of the first and second series of hauls, if the master wishes to continue to fish within the SSRU, the vessel must undertake a 'third series' which will result in a total of 20 research hauls being made in all three series. The third series of hauls shall be completed during the same visit as the first and second series in a SSRU.
 - (iv) On completion of 20 research hauls the vessel may continue to fish within the SSRU.
 - (v) When either the catch limit or the end of the fishing season is reached, all fishing within the designated area should cease.
4. To be designated as a research haul:
 - (i) each research haul must be separated by not less than 5 n miles from any other research haul, distance to be measured from the geographical mid-point of each research haul;
 - (ii) each haul shall comprise: for longlines, at least 3 500 hooks and no more than 10 000 hooks; this may comprise a number of separate lines set in the same location; for trawls, at least 30 minutes effective fishing time as defined in the *Draft Manual for Bottom Trawl Surveys in the Convention Area* (SC-CAMLR-XI, Annex 5, Appendix H, Attachment E, paragraph 4); and
 - (iii) each haul of a longline shall have a soak time of not less than six hours, measured from the time of completion of the setting process to the beginning of the hauling process.

5. All data specified in the Data Collection Plan (Annex 41-01/A) of this conservation measure shall be collected for every research haul; in particular, all fish in a research haul up to 100 fish are to be measured and at least 30 fish sampled for biological studies (paragraphs 2(iv) to 2(vi) of Annex 41-01/A). Where more than 100 fish are caught, a method for randomly subsampling the fish should be applied.

Table 1: The coordinates of the small-scale research units (SSRUs) (see also Figure 1).

| Subarea/ Division | SSRU | Grid Coordinates | | | |
|----------------------|------|-----------------------------|-----------------------|--------------------------|---------------------------|
| | | Top Left Latitude | Top Left Longitude | Bottom Right Latitude | Bottom Right Longitude |
| 48.6 | A | 50°S | 20°W | 60°S | 30°E |
| 48.6 | B | 60°S | 20°W | coast | 10°W |
| 48.6 | C | 60°S | 10°W | coast | 0 |
| 48.6 | D | 60°S | 0 | coast | 10°E |
| 48.6 | E | 60°S | 10°E | coast | 20°E |
| 48.6 | F | 60°S | 20°E | coast | 30°E |
| 58.4.1 | A | 55°S | 80°E | 64°S | 89°E |
| 58.4.2 | A | 62°S | 30°E | coast | 40°E |
| 58.4.2 | B | 62°S | 40°E | coast | 50°E |
| 58.4.2 | C | 62°S | 50°E | coast | 60°E |
| 58.4.2 | D | 62°S | 60°E | coast | 70°E |
| 58.4.2 | E | 62°S | 70°E | coast | 80°E |
| 58.4.3a | A | Whole division | | | |
| 58.4.3b | A | Whole division | | | |
| 58.4.4 | A | 51°S | 40°E | 54°S | 42°E |
| 58.4.4 | B | 51°S | 42°E | 54°S | 46°E |
| 58.4.4 | C | 51°S | 46°E | 54°S | 50°E |
| 58.4.4 | D | Areas outside SSRUs A, B, C | | | |
| 58.6 | A | 45°S | 40°E | 48°S | 44°E |
| 58.6 | B | 45°S | 44°E | 48°S | 48°E |
| 58.6 | C | 45°S | 48°E | 48°S | 51°E |
| 58.6 | D | 45°S | 51°E | 48°S | 54°E |
| 58.7 | A | 45°S | 37°E | 48°S | 40°E |
| 88.1 | A | 60°S | 150°E | 65°S | 170°W |
| 88.1 | B | 65°S | 150°E | 72°S | 180° |
| 88.1 | C | 65°S | 180° | 72°S | 170°W |
| 88.1 | D | 72°S | 160°E | 84°S | 180° |
| 88.1 | E | 72°S | 180° | 84.5°S | 170°W |
| 88.2 | A | 60°S | 170°W | coast | 160°W |
| 88.2 | B | 60°S | 160°W | coast | 150°W |
| 88.2 | C | 60°S | 150°W | coast | 140°W |
| 88.2 | D | 60°S | 140°W | coast | 130°W |
| 88.2 | E | 60°S | 130°W | coast | 120°W |
| 88.2 | F | 60°S | 120°W | coast | 110°W |
| 88.2 | G | 60°S | 110°W | coast | 105°W |

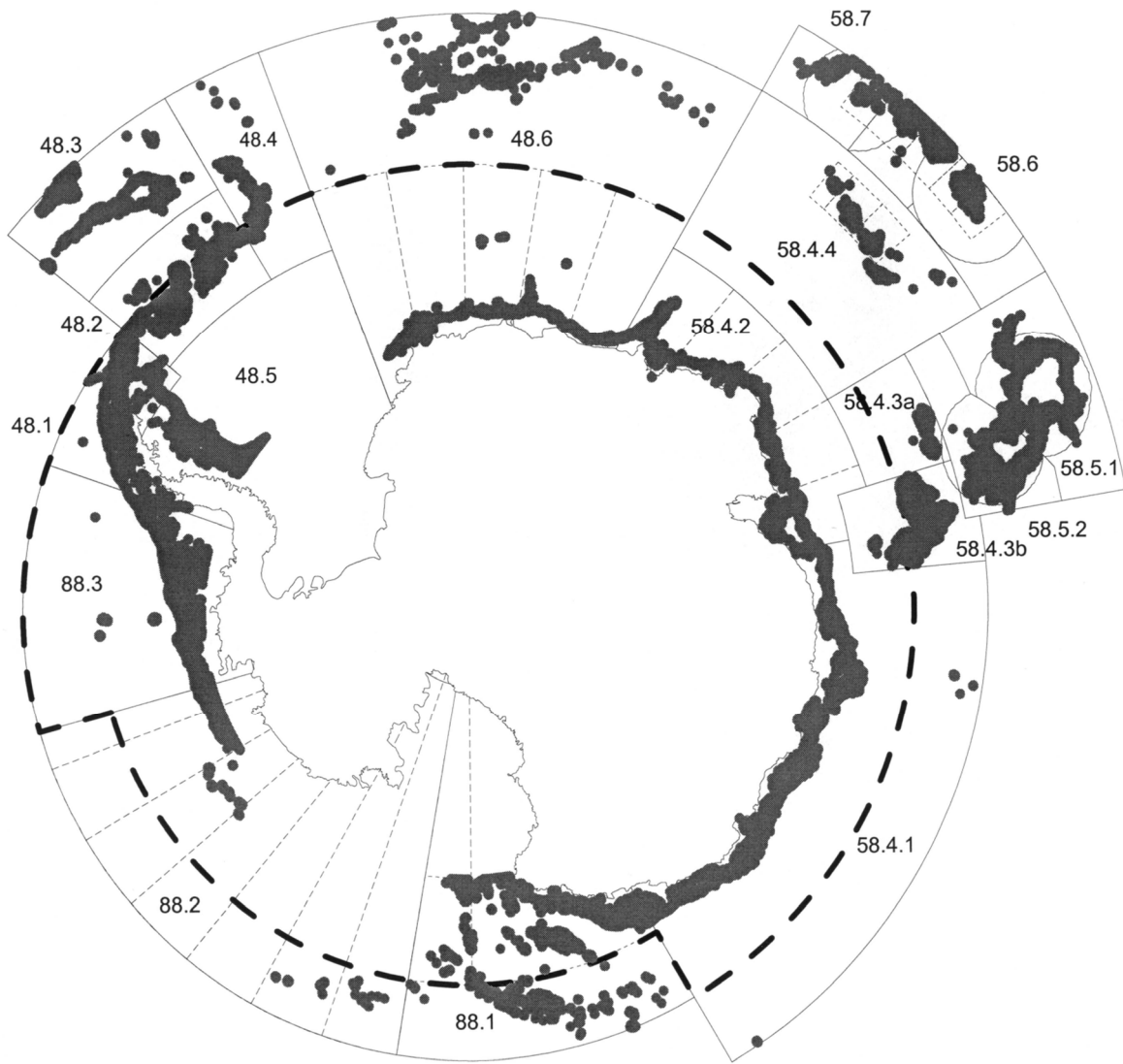


Figure 1: Small-scale research units for new and exploratory fisheries. The boundaries of these units are listed in Table 1. EEZ boundaries for Australia, France and South Africa are marked in order to address notifications for new and exploratory fisheries in waters adjacent to these zones. Dashed line – delineation between *Dissostichus eleginoides* and *Dissostichus mawsoni*; shaded patches – seabed areas between 500 and 1 800 m.